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STATINTL

SAT: Chemical STATINTL

Catalysis: Life

Support (01.0204)

December 16, 1975

*file Chem Catal*

Dr. M. M. Sakharov  
Institute of Chemical Physics  
Academy of Science of the USSR  
Vorobjevskoye Shaussee 2-B  
Moscow, 117334, USSR

Dear Michael Michaelovich:

This letter is a formal invitation to invite you to visit Worcester Polytechnic Institute. In accordance with the protocol signed in Princeton between myself and Prof. Krylov on your behalf, it was planned that you visit the United States for two weeks commencing about October 1, 1975. Now it is necessary to arrange your visit for two weeks, sometime after January 1, 1976, at your convenience. We shall discuss the details of our joint research, and it will give you the opportunity to meet Mr. Rene LaPierre. He is now studying for his doctorate at Worcester Polytechnic Institute and has expressed interest in going to the USSR for six months to work on our joint research. We are currently conducting heterogeneous studies using basic solids for catalysis as well as continuing CSTR and complexing work.

During your visit to the USA, I recommend that you arrange to arrive in Washington on a Friday and spend the weekend to meet with American Chemical Society personnel and see sites of importance. Then, there is a Sunday evening Delta flight from New York (LaGuardia) to Worcester, and I shall meet you at the plane.

There are research activities in progress both in New York (Prof. Happel at Columbia) and Berkeley, (Prof. Petersen at Univ. of Cal.) that are in the mutual interests of the collaboration. We shall make arrangements for appropriate visits to their laboratories when I learn the exact date of your arrival.

The itinerary I propose is Mon., Tues., Wed. in Worcester, Boston to San Francisco Thurs., San Francisco to New York Tues., New York to Moscow Sun. Changes in the itinerary are of course possible, and the schedule is flexible enough to also include visits to Prof. Hightower (Rice Univ.) in Houston and/or Prof. Baldeschwieler (Cal Tech) in Los Angeles. The activities in catalysis that are being pursued at both places are of considerable interest for our work, but so many visits would be very strenuous for a two-week period. Alternatively, you may prefer to extend your stay in Worcester.

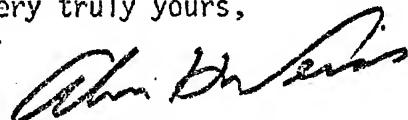
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It was a real pleasure to see Profs. Krylov, Kazanskii, and Ghorochovatskii here in Worcester; and I hope the visit was fruitful and pleasant for them. Now, we are most anxious for your arrival.

Please give my best compliments to everyone.

Very truly yours,



Alvin H. Weiss, Professor  
Chemical Engineering

AHW/dcf

cc: Y.B. Ghorochovatskii  
O.V. Krylov  
J.D. Baldeschwieler  
Kenyon/Snow, ACS  
Dr. Oren Williams, NSF  
Dr. Oswald Ganley, State Dept.  
Mr. Rene B. LaPierre

The subject of proposed work and cooperation:

"Synthesis and study of catalysts containing consolidated palladium complexes."

Proposed program of visits (indicate scientific institutions, the names of scientists with whom it might be desirable to visit, and duration of each visit):

1. Stanford University, Prof. Collman. Carrying out scientific work on the problem of "Synthesis and the study of catalysts containing consolidated palladium complexes" by using modern research methods. Duration of the visit -- five and a half months.
2. California Institute of Technology (Los Angeles), Prof. Gange. Familiarization with methods of obtaining synthetic enzyme analogs and methods of studying them, duration of the visit -- one week.
3. University of Chicago, laboratory of Prof. Halpern. Familiarization with the theory and methods of studying homogeneous catalysts. Duration -- one week.

The subject of possible lectures:

"The factors affecting the stability and reaction capacity of series of II palladium complexes with olefins."

The desirable date of arrival and duration of the visit:

September 1975, six months.

Translation - M. Snow

FILE Chem Catalysts (01.02)

*my-W*

## DATA SHEET

STATINTL

For persons leaving for the U.S. under the Agreement on Scientific Exchange in

## the Field of Chemical Catalysis

• Last name, first name & patronymic:

LIKHOLOBOV, Vladimir Alexandrovich

• Date & place of birth:

August 18, 1947, Krasnograd, Kharkov Oblast'

• Education (which institute completed and when) and degree received:

Novosibirsk State University, 1970

Ph.D. in Chemistry

• Occupation and title:

Junior Staff Scientist, Institute of Catalysis,  
Siberian Department of the Academy of Sciences of  
the U.S.S.R.

• Specialization:

Homogeneous Catalysis

• Knowledge of foreign languages:

English, German - can make himself understood

• Bibliography (titles and dates of principal publications):

1. Constants for the formation of palladium olefin complexes (II), University Abstracts, 15, No. 8, 1166, 1972.
2. Reaction kinetics of olefin oxidation by using acid group bromides and iodides of palladium (II), University Abstracts, 15, No. 10, 1485, 1972.
3. On the interaction of palladium (II) nitrate with ethylene and propylene in non-aqueous solutions, Kinetics and Catalysis, 15, No. 4, 1096, 1974.
4. Catalytic oxidation of carbon monoxide in the presence of palladium of the phosphine complexes. Kinetics and Catalysis, 15, No. 4, 1613, 1974.
5. Olefin interaction with nitric acid, Papers of the Academy of Sciences of the USSR, vol. 218, No. 14, 848, 1974.
6. Synthesis of nitril complexes of palladium bonded to  $\text{SiO}_2$  and a comparison of their catalytic properties to the properties of soluble analogs. Preprints of the Second Franco-Soviet Seminar on Catalysis, Kiev, 1974.